

REC GROUT 745

VERY HIGH STRENGTH SHRINKAGE COMPENSATED GROUT

DESCRIPTION

REC GROUT 745 is a blend of Portland cement, special admixtures, and proprietary aggregates designed to provide high flexural and compressive strength performance from plastic to fluid consistencies. **REC GROUT 745** is non-metallic, non-shrink, non-gas-forming, and contains no chlorides or aluminum powders. It is a high-performance, multi-use, general-purpose precision construction grout.

SCOPE OF USE

- Assembly of precast parts made of reinforced or prestressed concrete.
- Grouting of anchors and dowels.
- Jointing.
- Keying of bridges.
- Fixing industrial equipment and heavy machinery mounting plates.
- Vertical shoring.
- Void-filling operations.

FEATURES/BENEFITS

- High strength
- Non-shrink
- Highly fluid
- Resistant to seawater and sulfates.
- Available in liquid or plastic consistency.

TECHNICAL INFORMATION

Appearance	Grey powder
Grain size	0 to 4.75 mm
Chloride content	<0.1%
Fresh density	2340 kg/m ³ (BS 1881:83)
Compressive Strength at 1 day	>30 N/mm ² — BS EN 445
Compressive Strength at 7 days	>60 N/mm ² — BS EN 445
Compressive Strength at 28 days	>75 N/mm ² — BS EN 445
Length change	0.062% @ 28 days (ASTM C157-03)
Pull-off stress	>1.5 N/mm ² @ 28 days (BS 1881 Part 207)
Flexural Strength (N/mm ²) (BS EN 196-1)	>10
Tensile Strength (N/mm ²) — BS 6319: Part 7: 1985	>3

NOTE: Results may differ due to statistical variations depending on mixing methods and equipment, temperature, application methods, test methods, actual site conditions, and curing conditions.

APPLICABLE STANDARD

REC GROUT 745 complies with BS EN 196 Part 1, BS EN 12190, BS 1881 Part 207, ASTM C157-03, BS 6319 Part 7.

DIRECTIONS FOR USE

MORTAR PREPARATION

Add the powder to the water and mix for 3 minutes. To ensure a homogeneous and uniform mix, an electric mixer with a high rotation speed must be used for fluid and flowable consistencies. The mortar is obtained by mixing **REC GROUT 745** with clean water. The amount of water used depends on the required workability.

MIXING REQUIREMENTS

Consistency	REC GROUT 745	Water	Volume in Place
Plastic	50 kg	5.2 to 5.5 liters	24 liters
Flowable	50 kg	6.0 to 6.4 liters	24 liters
Fluid	50 kg	6.4 to 6.75 liters	24 liters

FOR GROUTING AND CONCRETE REPAIR

REC GROUT 745 can be used for thicknesses up to 10 cm. Apply the mortar evenly onto the concrete surface where required. The ideal application temperature is between +5°C and +35°C. If the application temperature is higher than 35°C, use cool water to keep the mixed grout temperature below 30°C.

CURING

Protect the work against rapid drying caused by wind, sun, and excessive heat by using a curing compound such as Rec Cure E-4 or by covering the work with properly secured plastic sheeting.

PACKAGING

REC GROUT 745 is supplied in various packaging sizes and quantity of the product varies with the demand of clients.

STORAGE

Shelf life is 12 months from the date of manufacture when stored in the original, unopened packaging, under cover, in dry conditions, away from humidity, and protected from extreme temperatures and direct sunlight.

SAFETY PRECAUTIONS

While using the product, gloves, a mask, and safety goggles should be worn. Splashes on the skin or in the eyes should be washed immediately with clean water. In case of prolonged irritation, seek medical advice.

QUALITY STATEMENT

All our products are manufactured to comply with our internal quality management system to ensure consistency and quality.

DISCLAIMER

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use. This Data Sheet version is the latest one. The company may modify it without any prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's head office located in Lahore.

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